

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:
Thomas D. Schneider and Denise Rubens
Application No. _____

Art Unit: _____

Filed: Herewith

For: HIGH SPEED PARALLEL MOLECULAR
NUCLEIC ACID SEQUENCING

Examiner: _____

Date: February 28, 2002

INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 C.F.R. § 1.97(b)(2)

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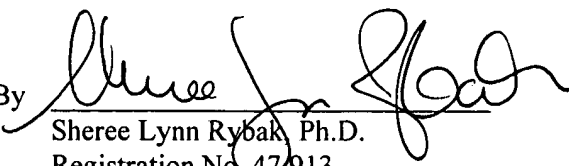
Sir:

Listed on the accompanying form PTO-1449 and enclosed herewith are several English-language documents. Applicants respectfully request that these documents be listed as references cited on the issued patent.

Applicants filed this Information Disclosure Statement ("IDS") within three months of the date of entry of the national stage as set forth in § 1.491 in an international application. As a result, no fee should be required to file this IDS. However, if the Patent Office determines that a fee is required for Applicants to file this Information Disclosure Statement, please charge any such fees, or credit overpayment, to Deposit Account No. 02-4550. A **duplicate** copy of this Information Disclosure Statement is enclosed.

Respectfully submitted,

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Docket: 4239-62263		App: _____			
				Applicant: Schneider et al.					
				Filed: Herewith		Art Unit: _____			
U.S. PATENT DOCUMENTS									
Init.*		Number	Date	Name	Class	Sub	Filed		
		4,711,955	12/8/1987	Ward et al.					
		4,793,705	12/27/1988	Shera					
		4,917,462	4/17/1990	Lewis et al.					
		4,962,037	10/9/1990	Jett et al.					
		5,017,009	5/21/1991	Schutt et al.					
		5,047,519	9/10/1991	Hobbs, Jr. et al.					
		5,064,754	11/12/1991	Mills					
		5,105,305	4/14/1992	Betzig et al.					
		5,124,247	6/23/1992	Ansorge					
		5,151,507	9/29/1992	Hobbs Jr., et al.					
		5,221,518	6/22/1993	Mills					
		5,242,796	9/7/1993	Prober et al.					
		5,306,618	4/26/1994	Prober et al.					
		5,332,666	7/26/1994	Prober et al.					
		5,354,985	10/11/1994	Quate					
		5,360,523	11/1/1994	Middendorf et al.					
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U.S. PATENT DOCUMENTS							
Init.*		Number	Date	Name	Class	Sub	Filed
		5,389,779	2/14/1995	Betzig et al.			
		5,405,747	4/11/1995	Jett et al.			
		5,556,790	9/17/1996	Pettit			
		5,614,386	3/25/1997	Metzker et al.			
		5,625,048	4/29/1997	Tsien et al.			
		5,654,176	8/5/1997	Smith			
		5,661,028	8/26/1997	Foote			
		5,674,743	10/7/1997	Ulmer			
		5,707,804	1/13/1998	Mathies et al.			
		5,763,594	6/9/1998	Hiatt et al.			
		5,777,079	7/7/1998	Tsien et al.			
		5,780,232	7/14/1998	Arlinghaus et al.			
		5,800,996	9/1/1998	Lee et al.			
		5,814,454	9/29/1998	Ju			
		5,821,058	10/13/1998	Smith et al.			
		5,866,336	2/2/1999	Nazarenko et al.			
		6,210,896	4/3/2001	Chan			
EXAMINER:				DATE			
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FOREIGN PATENT DOCUMENTS							
		Number	Date	Country	Class	Sub	
		WO 97/30366	21.08.97	PCT			
		WO 97/40191	30.10.97	PCT			
		WO 98/33939	06.08.98	PCT			
		WO 99/05315	04.02.99	PCT			
		WO 00/53805	14.09.00	PCT			
		WO 00/70073	23.11.00	PCT			
OTHER DOCUMENTS							
			Allen et al., "Resonance Energy Transfer Measurements Between Substrate Binding Sites Within the Large (Klenow) Fragment of <i>Escherichia coli</i> DNA Polymerase I," <i>Biochem.</i> 28:9586-9593 (1989).				
			Baubet et al., "Chimeric Green Fluorescent Protein-Aequorin as Bioluminescent Ca ²⁺ Reporters at the Single-Cell Level," <i>Proc. Natl. Acad. Sci. USA</i> 97:7260-7265 (2000).				
			Burns et al., "Studies in Fluorescence Histochemistry. X. Optimum Conditions of the Acetic Anhydride-Salicylhydrazide-Zinc (or Fluorescent Ketone) Technique for Demonstrating C-Terminal Carboxyl Groups of Proteins," <i>Histochemie</i> 26:279-288 (1971).				
			Clegg, "Fluorescence Resonance Energy Transfer and Nucleic Acids," <i>Methods in Enzymol.</i> 211:353-388 (1992).				
			Delagrave et al., "Red-Shifted Excitation Mutants of the Green Fluorescent Protein," <i>Bio/Tech.</i> 13:151-154 (1995).				
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OTHER DOCUMENTS				
			Ehrig et al., "Green-Fluorescent Protein Mutants with Altered Fluorescence Excitation Spectra," <i>FEBS Lett.</i> 367:163-166 (1995).	
			Fang et al., "Imaging Single Fluorescent Molecules at the Interface of an Optical Fiber Probe by Evanescent Wave Excitation," <i>Anal. Chem.</i> 71:3101-3105 (1999).	
			Funatsu et al., "Imaging of Single Fluorescent Molecules and Individual ATP Turnovers by Single Myosin Molecules in Aqueous Solution," <i>Nature</i> 374:555-559 (1995).	
			Gordon et al., "Quantitative Fluorescence Resonance Energy Transfer Measurements Using Fluorescence Microscopy," <i>Biophys. J.</i> 74:2702-2713 (1998).	
			Ha et al., "Probing the Interaction Between Two Single Molecules: Fluorescence Resonance Energy Transfer Between a Single Donor and a Single Acceptor," <i>Proc. Natl. Acad. Sci. USA</i> 93:6264-6268 (1996).	
			Harada et al., "Mechanochemical Coupling in Actomyosin Energy Transduction Studied by <i>in Vitro</i> Movement Assay," <i>J. Mol. Biol.</i> 216:49-68 (1990).	
			Harms et al., "Single-Molecule Anisotropy Imaging," <i>Biophys. J.</i> 77:2864-2870 (1999).	
			Heyduk et al., "Thiol-Reactive, Luminescent Europium Chelates: Luminescence Probes for Resonance Energy Transfer Distance Measurements in Biomolecules," <i>Anal. Biochem.</i> 248:216-227 (1997).	
			Heyduk et al., "Architecture of a Complex Between the σ^{70} Subunit of <i>Escherichia coli</i> RNA Polymerase and the Nontemplate Strand Oligonucleotide," <i>J. Biol. Chem.</i> 274:3315-3322 (1999).	
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			Applicant: Schneider et al.	
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OTHER DOCUMENTS				
			Hung et al., "Cyanine Dyes with High Absorption Cross Section as Donor Chromophores in Energy Transfer Primers," <i>Anal. Biochem.</i> 243:15-27 (1996).	
			Inouye et al., " <i>Aequorea</i> Green Fluorescent Protein. Expression of the Gene and Fluorescence Characteristics of the Recombinant Protein," <i>FEBS Lett.</i> 341:277-280 (1994).	
			Itakura et al., "Force-Generating Domain of Myosin Motor," <i>Biochem. Biophys. Res. Comm.</i> 196:1504-1510 (1993).	
			Karger et al., "Multiwavelength Fluorescence Detection for DNA Sequencing Using Capillary Electrophoresis," <i>Nucleic Acids Res.</i> 19:4955-4962 (1991).	
			Kheterpal et al., "Capillary Array Electrophoresis DNA Sequencing," <i>Analy. Chem. News & Features</i> , pp. 31A-37A (1999)	
			Kitamura et al., "A Single Myosin Head Moves Along an Actin Filament with Regular Steps of 5.3 Nanometres," <i>Nature</i> 397:129-134 (1999).	
			Kumar et al., "Silanized Nucleic Acids: A General Platform for DNA Immobilization," <i>Nucleic Acids Res.</i> 28:e71 (2000).	
			Lemon et al., "Localization of Bacterial DNA Polymerase: Evidence for a Factory Model of Replication," <i>Science</i> 282:1516-1519 (1998).	
			Mazzola et al., "Imaging Biomolecule Arrays by Atomic Force Microscopy," <i>Biophys. J.</i> 68:1653-1660 (1995).	
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OTHER DOCUMENTS				
			Mitra et al., "Fluorescence Resonance Energy Transfer Between Blue-Emitting and Red-Shifted Excitation Derivatives of the Green Fluorescent Protein," <i>Gene</i> 173:13-17 (1996).	
			Müller et al., "A Strategy for the Chemical Synthesis of Nanostructures," <i>Science</i> 268:272-273 (1995).	
			Park et al., "Block of Copolymer Lithography: Periodic Arrays of $\sim 10^{11}$ Holes in 1 Square Centimeter," <i>Science</i> 276:1401-1404 (1997).	
			Park et al., "Green Fluorescent Protein as a Signal for Protein-Protein Interactions," <i>Protein Science</i> 6:2344-2349 (1997).	
			Pierce et al., "Imaging Individual Green Fluorescent Proteins," <i>Nature</i> 388:338 (1997).	
			Sinclair, "Sequence or Die - Automated Instrumentation for the Genome Era," <i>The Scientist</i> , pp. 18-20, April 12, 1999.	
			Szöllösi et al., "Application of Fluorescence Resonance Energy Transfer in the Clinical Laboratory: Routine and Research," <i>Cytometry</i> 34:159-179 (1998).	
			Travis, "Physics Festival Brightens Rainy San Jose," <i>Science</i> 268:30-31 (1995).	
			Unger et al., "Single-Molecule Fluorescence Observed with Mercury Lamp Illumination," <i>BioTechniques</i> 27:1008-1014 (1999).	
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			Weiss, "Fluorescence Spectroscopy of Single Biomolecules," <i>Science</i> 283:1676-1683 (1999).	
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